

GLM/CLA:zeh 08/11/05 407884.doc E-059-2000/0-US-01  
PATENT

Attorney Reference Number 4239-54279-01  
Application Number 09/595,580

*In the Specification:*

**Please replace the paragraph beginning on page 17, line 28, with the following amended paragraph:**

To aid in visual interpretation of the data, a legend 1160 is presented. Although the legend is shown in black and white in the drawing, in an implementation, a legend is presented in which each predictive element is shown in a box of a particular color. In the implementation, the The bars 1150a, 1150b, and 1150c take advantage of the legend 1160 by representing each predictive element in the color as indicated in the legend 1160. As explained in greater detail below, a wide variety of alternative or additional user interface features can be incorporated into the user interface.

**Please replace the paragraph beginning on page 35, line 21, with the following amended paragraph:**

In the case of a predictive element set of size three, a cubical graph can portray the observed data for each predictive element. For example, FIG. 26 shows data observed for the PC-1, RCH1, and p53, which were used to predict the fictitious gene AHA. The presence and size of spheres appearing at various coordinates indicate the number of observations for a particular triple in the data of Table 4. Although the spheres are shown in black and white in the drawing, in an implementation, the The color of the sphere indicates whether expression of AHA was up-regulated (red), unchanged (yellow), or down-regulated (green). The percentage of observations falling within the triple is also displayed.

**Please replace the paragraph beginning on page 36, line 10, with the following amended paragraph:**

In addition, the perceptron predictor for a particular set of predictive elements can be displayed as a cube, with planes defining the perceptron depicted thereon. For example, FIG. 27 portrays a perceptron for predicting the gene "AHA." Although the spheres are shown in black and white in the drawing, in an implementation, values Values provided by the perceptron are indicated on the cube by depicting spheres of various colors. If up-regulation is

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predicted, a red sphere appears; if down-regulation is predicted, a green sphere appears;  
otherwise a yellow sphere appears.